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KDL-55HX820

55" Class (54.6" diag) LED HX820-Series Internet TV

Bring home a tough yet elegant LED LCD HDTV with the Sony® HX820-Series that features exclusive X-Reality™ PRO technology. This innovative technology improves picture detail in everything you watch including low-resolution web videos. You also get Full HD 1080p even in 3D[5] plus wireless access to must-have entertainment on your terms with new apps delivered automatically[1]. And Corning's exclusive Gorilla® Glass panel lets you enjoy an incredibly durable, lightweight, frameless design.

Bullets

- Online entertainment access with automatic app updates[1]
- Brilliant Full HD (1080p) picture quality for 2D & 3D[5]
- Local dimming LED for superior contrast & energy efficiency
- Sleek design w/ OptiContrast panel featuring Gorilla® Glass
- X-Reality™ PRO Engine for superior picture, incl. online content
- Experience high motion clarity with MotionFlow™ XR 480

Features

Sleek design

Sony's frameless design consists of an elegant sheet of glass stretching from edge-to-edge. It looks just as good when it's off as it does when it's on.

OptiContrast™ Panel

Sony's exclusive panel technology boosts contrast and brightness, making for an enhanced viewing experience.

Corning® Gorilla® Glass

Enjoy an incredibly durable, remarkably lightweight, frameless design with Corning's exclusive Gorilla® Glass. Combined with the Opti-Contrast™ panel, this HDTV boosts contrast, increases brightness and minimizes unwanted light reflections.

Dynamic Edge LED Backlight

Experience enhanced picture quality and contrast with local dimming technology. It sharpens image contrast giving an amazingly crisp picture you can see. The backlight system allows for a more environmentally friendly television than traditional CCFL-tube TVs.

Internet Streaming & Connectivity

Sony Internet TV:
Get instant access to must-have entertainment, including thousands of hit movies, TV shows, music choices, online videos and games.[1] Plus get new apps delivered to you automatically, so your selection is never outdated and you are always connected to the best entertainment.

Skype™ Ready:
Easily connect to family and friends live on your HDTV wherever they are with Skype! Enjoy free high definition Skype-to–Skype video calls from the comfort of your living room. Simply attach the Sony® compact microphone/camera (CMU-BR100, required, sold separately) and see your friends on the big screen – it's unlike any experience you could get on a PC. [2]

Integrated Wi-Fi®:Conveniently stream entertainment straight from the Internet and from your home network using the built-in Wi-Fi®.[1]

DLNA® Streaming:
Access and share photos, videos and music on your TV by streaming them from compatible DLNA® device like your PC or Playstation®3 system.[3]

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X-Reality™ PRO Engine

Enjoy Sony's best picture experience no matter what you're watching. Sony's X-Reality™ PRO engine brings out incredible detail through multi-frame, pixel-by-pixel analysis of each scene. You will see optimal color, contrast and sharpness including in low resolution web videos.

See It All in 3D

Enjoy incredible depth and a sharp, Full HD 1080p picture from the leader in 3D technology.5 Plus easy set up with built-in 3D sync transmitter. (3D Active Glasses required, sold separately)

Motionflow ™ XR 480

Experience motion clarity from the combination of LED backlighting and high frame-rate technology. See smooth motion during fast action movies and sports. Sony's Motionflow™ XR 480 technology reduces blur caused by quick camera movements, enhances image sharpness, and overall creates a clearer picture.

Intelligent Presence Sensor

Enjoy an incredibly customized picture and sound experience every time. Sony's Intelligent Presence Sensor uses built-in Face Detection technology to turn itself off if no one is watching, warns children when they're too close to the screen and adjusts picture and sound based on where people are sitting in the room.

Ambient Sensor

Incredible picture in any lighting. The built-in Ambient Sensor automatically adjusts the TV's color and brightness based on the room's lighting conditions giving you a natural looking picture.

Media Remote App.

Download the free Media Remote app and use your iPhone® or Android™ phone as a versatile remove control with full QWERTY keyboard.[4]

Navigation Made Easy

Enjoy an easy-to-use menu that allows you to navigate additional content or adjust the picture settings while watching your favorite program.

Energy Saving Switch

Even when turned off, most electronics are still using energy if they are plugged in. With Sony's Energy Saving Switch you can easily eliminate this standby power without the fuss of plugging and unplugging the cord. When the switch is turned in the "OFF" position it reduces the television's standby power to nearly nothing.

Faster Start-Up

Quick Start & Viewing feature enables this Sony television to go from 'OFF' to 'ON' 2-3 times faster than previous Sony televisions.

USB Photos, Videos & Music

Share your photos on the big screen or listen to your favorite music. Simply connect your digital camera, USB-enabled MP3 player, or USB storage device directly to your HDTV's USB input.

BRAVIA® Sync™ Compatible

Conveniently operate and control other BRAVIA® Sync™ compatible devices - including BRAVIA® HDTVs, Blu-ray Disc™ Players, surround sound systems, Handycam® camcorders and Cyber-shot® digital still cameras, all with one remote control when connected via HDMI.

Specifications

3D Features	
2D to 3D Conversion	Yes
3D	Yes
3D Sync Transmitter Integrated	Yes

Audio	
Audio Power Output	10W + 10W + 10W
Speaker Configuration	2.1
Speaker Position	Rear Facing
Audio Features	
5.1 Channel Audio Out	Yes
5.1ch Through Out (Handycam)	Yes
Alternate Audio (Digital)	Yes
Audio Out	Fixed/Variable

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Auto Mute (on no signal)	Yes
Auto SAP	Yes
Clear Phase Speaker	Yes
Dolby®	Dolby Digital, Dolby Digital Plus, Dolby Pulse
Headphone/ Speaker Link	Yes
Invisible Speaker (w/Sound Elevation)	Yes
S-Master	Yes
Sony Original Surround	S-Force Front Surround 3D
Sound Booster	Yes
Sound Enhancer	Yes
Sound Mode	Dynamic, Standard, Clear Voice, Custom
Stereo System	MTS
Surround Effect	Cinema, Sports, Music, Game

Broadcast Features

TV Guide On-Screen	Yes

Convenience Features

Auto Shut-off	Yes
BRAVIA® Sync™	Yes
Channel Block (with password)	Analog & Digital
Channel Jump	Yes
Channel Surf	Yes
Control for HDMI™ (HDMI™ CEC)	Yes
Distance Alert	Yes
Edit Channel Labels	Yes
Info Banner	Yes
Input Skip	Automatic
Label Inputs	Yes
Multiple Language Display	English, French, Spanish
On/Off Timer	Yes
On-Screen Clock	Yes
On-Screen Display for External Input	Yes
On-Screen Operating Instructions	Yes
PAP (Fixed or Variable)	PAP(Variable)
Parental Control	Yes
Picture Adjustments Lock	Yes
Picture Frame Mode	Yes
PIP (Picture in Picture)	Yes
Position Control	Yes
Quick Start & Viewing	Yes
Scene Select	Photo, Music, Cinema, Game, Graphics, Sports, Animation
Show/Hide Channels	Yes
Skin Naturalizer	Yes
Sleep Timer	Yes
Twin Picture	PAP (Variable)
USB Play	Yes

Design Features

6 degree Upward Style	Yes
Illuminated Sony Logo	Yes
Monolithic Design	Yes
Stand Swivel	Yes
Stand Swivel Range	Left 20°/Right 20°
Stand Tilt	Yes
Stand Tilt Range	0°- 6° Flexible

Display

Aspect Ratio	16:9
Display Resolution	Full HD 1080p
Dynamic Contrast Ratio	Infinite[6]
Panel Frequency	240Hz
Screen Size (measured diagonally)	55" (54.6")
Viewing Angle (Right/Left)	178 (89/89)
Viewing Angle (Up/Down)	178 (89/89)

Energy Saving & Efficiency

Backlight Off Mode	Yes
Dynamic Backlight Control	Yes
Energy Saving Switch	Yes
Energy Star® compliant	Yes (Exceeds v5.0)
Power Consumption (On Mode) for Energy Star	94W
Power Consumption (Standby Mode) for Energy Star	0.30W

General Features

Audio Return Channel	Yes
Closed Captions (CC)	Analog, Digital
Finish (Surface Color)	Black
HDMI™ InstaPort	Yes
Start Up Sony Logo Display	Yes

Inputs and Outputs

AC Power Input	1 (Rear)
Analog Audio Input(s) (Total)	2 (Adaptor/Bottom)
Audio Out	1(Side) Hybrid w/HP
Component Video (Y/Pb/Pr) Input(s)	1 (Adaptor/Bottom/ Hybrid)
Composite Video Input(s)	2 (Adaptor/Bottom/1 Hybrid)
Digital Audio Output(s)	1 (Side)
Ethernet Connection(s)	1 (Bottom)
HDMI™ Connection(s) (Total)	4 (2 Side/2 Bottom)
HDMI™ PC Input	Yes
Headphone Output(s)	1(Side) Hybrid w/Audio out
PC In (D-Sub) + Audio In (Stereo Mini)	D-Sub 1(Side), Mini 1(Rear)
RF Connection Input(s)	1 (Bottom)
USB 2.0	2 (Side)

Network Features

BRAVIA® Internet Video	Yes
BRAVIA® Internet Widgets	Yes
DLNA	Yes
HTML Browser	Yes
Media Remote	Yes (Firmware Update Required)
Photo MAP	Yes
Skype™	Yes
TrackID	Yes
Video Search	Yes
What's New	Yes (Firmware Update Required)
Wi-Fi Certified	Yes
Wi-Fi Direct	Yes (Firmware Update Required)
Wireless LAN	Integrated

Power

Power Consumption (in Download Acquisition Mode)	0.02kWh / Day
Power Consumption (in Operation) max.	177W
Power Consumption (in Standby)	0.20W (120V) / 0.30W (240V)
Power Requirements (frequency)	60Hz

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Power Requirements (voltage)	AC 120V
Recycled & Recyclable Materials	
Packaging Materials	Recycled Carton (more than 40%)
Regulation and Standards Compliance	
VESA® Hole Pitch	300 x 300 mm
VESA® Hole Spacing Compatible	Yes
Sensing Features	
Ambient Sensor	Yes
Intelligent Presence Sensor	Yes
Presence Sensor with Face Detection	Yes
Service and Warranty Information	
Limited Warranty Term	1 Year Parts / 1 Year Labor
TV System	
Channel Coverage	VHF: 2-13, UHF: 14-69, CATV: 1-135
Color System	NTSC
Number of Tuners (Analog)	1(Hybrid)
Number of Tuners (Digital)	1(Hybrid)
Tuner (Cable)	Clear QAM
Tuner (Terrestrial)	ATSC
TV System (Analog)	M
TV System (Digital)	ATSC
Video Features	
24p True Cinema™ Technology	Yes
3D Comb Filter	Yes
4:3 Default	Yes
Advanced Contrast Enhancer (ACE)	Yes
Auto Wide	Yes
Blinking Type	Frame Blinking
CineMotion® Reverse 3:2 Pulldown Technology	Yes
Deep Color	Yes
Intelligent MPEG Noise Reduction	Yes
Live Color™ Technology	Yes
Motionflow™ Technology	XR 480
PhotoTV HD	Yes
Picture Mode	Vivid, Standard, Photo-Vivid, Photo-Standard, Photo-Original, Photo-Custom, Cinema, Game-Standard, Game-Original, Graphics, Sports, Animation
Video Processing	X-Reality™ PRO Engine
Wide Mode	Full, Normal, Wide Zoom, Zoom, Caption, Normal/Full1/Full2 for PC
Dimensions (Approx.)	
Dimensions (Approx.)	50 1/2 x 30 1/2 x 1 1/8" (1281 x 774 x 27mm) without stand; 50 1/2 x 31 3/4 x 12 1/4" (1281 x 805 x 308mm) with stand
Weights and Measurements	
Packaging (Approx.)	56 3/8 x 35 7/8 x 6 5/8" (1431 x 911 x 168mm), 79 lbs (36 Kg)
Weight (Approx.)	51.2 lbs (23.2 Kg) without stand; 62.4 lbs (28.3 Kg) with stand

1. Broadband speed of 2.5 Mbps recommended (10 Mbps for HD). Content subject to change and may require fees. Wireless connectivity requires 802.11 home network (802.11n recommended).

2. Broadband speed of 2.5 Mbps recommended (10 Mbps for HD). Content subject to change and may require fees. Wireless connectivity requires 802.11 home network (802.11n recommended). Skype requires firmware update and CMU-BR100 camera sold sep. (expected availability summer 2011) Subject to Skype's terms and conditions.

3. Requires 802.11 home network, and content stored on a DLNA® compliant device.

4. Media Remote capability requires TV firmware update, expected Spring 2011 and devices connected to the same wireless home network.

5. Requires 3D content, 3D player, HDMI® cable (at least 10.2 Gbps) and 3D active glasses sold separately.

6. Dynamic contrast ratio compares the luminance of a 100 IRE (white) signal with that of a 0 IRE (black) signal. When the TV receives a 0 IRE signal the backlight is turned off and the luminance measurement is 0.00 cd/m^2. The resulting dynamic contrast ratio is infinite.

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